**Manifests and Environment Variables**

**Goals**

* Set application behavior via manifest and CLI options
* Gain experience pushing and debugging applications Prerequisites

To complete these steps, you will need:

* A Cloud Foundry account (either on your company’s CF installation or on Pivotal Web Services)
* The CLoud Foundry CLI installed

**6.2. Steps  
6.2.1. Setting Environment Variables**

In this section you will set environment variables via the manifest and observe how they are accessed in (Java) code.

1. Open the cf-spring-mvc-demo [https://github.com/ukannan/training-pcf ] folder and locate the manifest (you can use the CLI).

1. Add an environment variable to the manifest. Name the variable evtestand give it the value FromManifest.
2. Push the cf-spring-mvc-demo application to Cloud Foundry
3. While the application is being pushed, examine the logic in theCloudFoundryWorkshopController Java class. Specifically look at the “environment” method to see how System.getEnv() is used to obtain the variables. Also open the env.html page (under src/main/resources/templates) and see how theenvironmentVariables are accessed and put in the page.
4. Once the application has started, access the main page, then select theEnvironment Variables menu. The evtest variable should be present and set to “FromManifest”.

**6.2.2. Optional - Scaling Application Instances**

In this section you will scale the application to multiple instances and note the effect.

1. Using either your IDE, the CLI, or the web console, alter the number of instances to 2.
2. When scaling is complete, access the main page of the web app. Note the value of the application’s port. Use the browser’s refresh button several times. Does the port value remain the same?
3. Using the CLI, tail the logs for this app. Refresh the home page several times. Do you see entries for both App/0 and App/1?
4. Scale instances back to 1. (You will find this is much quicker using the CLI or web console)
5. Stop the application.

Congratulations, you have finished this exercise.